



NJ Department of Transportation  
Office of Maritime Resources  
Sediment Decontamination Demonstration Program

Project Update for **BGW, LLC**  
Last Updated: February, 2004

BGW, LLC. brings the BioGenesis Sediment Washing Technology<sup>SM</sup> to the NY/NJ Harbor. The BioGenesis technology is a chemical/physical process which uses



surfactants and oxidizing agents to remove contaminants from raw dredged material and allow separation of clean mineral fractions. These mineral fractions are then used as a base for the manufacture of soil products. The process has the unique ability to match the level of decontamination to the health and safety requirements of the end product, keeping costs of treatment in line with the value of the product produced. This has the added benefit of ensuring a

level per cubic yard charge to the dredging community when material is delivered.

In 1999, the BioGenesis technology was tested under the EPA/WRDA program at the Koppers Coke site in Kearny, NJ. Over 800 cubic yards of raw dredged material from the Stratus Petroleum site in northern Newark Bay was treated on site. The material was then used to produce a number of soil products ranging from potting soil to commercial fill. The majority of the material was placed as capping material on the Koppers Coke site. A copy of this report is available by visiting the WRDA website at [www.bnl.gov/wrdadcon](http://www.bnl.gov/wrdadcon). The 1999 EPA/WRDA pilot project was deemed to be acceptable by NJDOT/OMR to fulfill the requirements of the State's sediment decontamination demonstration program.



In 2001, NJDOT/OMR and BGW, LLC entered into an agreement to treat 75,000 cubic yards of dredged material. This contract is valued at \$6.75 million. The first load of 17,000 cubic yards of material from northern Newark Bay is considered a demonstration level project. Following successful treatment of that material, the project will be continued for up to an additional 58,000 cubic yards of material from an ongoing harbor project. This second phase would be considered to represent commercialization of this technology.



To date, BGW, LLC has yet to initiate sediment treatment under this contract. Due to logistical difficulties, the initial site for the demonstration in Kearny, NJ was abandoned in favor of the Bayshore Recycling facility at the old Carbarundum plant on the Raritan River in Keasbey, NJ. Treatment of the first 17,000 of dredged material is expected to commence in the summer of 2004.